

PRODUCTION OF POLYVINYLIDENE FLUORIDE POWDER

Patent Number: JP58065711

Publication date: 1983-04-19

Inventor(s): OKUNO CHIYUUZOU

Applicant(s): DAIKIN KOGYO KK

Requested Patent: JP58065711

Application Number: JP19810146649 19810914

Priority Number(s):

IPC Classification: C08F14/22; C08F2/38

EC Classification:

Equivalents: JP1203252C, JP58034484B

Abstract

PURPOSE: To produce a polyvinylidene fluoride powder excellent in heat stability, solubility and organosol formability without detriment to the polymerization rate, by using a specified chain transfer agent in polymerizing vinylidene fluoride with the aid of a persulfate initiator.

CONSTITUTION: Use is made of, as a chain transfer agent, 0.1-5mol%, based on vinylidene fluoride, methyl acetate and/or ethyl acetate. Namely, water is charged with vinylidene fluoride, 0.001-1wt%, based on water, persulfate (e.g., potassium persulfate, ammonium persulfate), 0.01-0.5wt%, based on water, emulsifier (e.g., ammonium perfluorooctanoate), and a predetermined amount of methyl acetate and/or ethyl acetate, and the mixture is emulsion-polymerized at about 70-100 deg.C and about 5-45kg/cm².

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